

CARELLA, BYRNE, BAUER, GILFILLAN,  
CECCHI, STEWART & OLSTEIN  
6 Becker Farm Road  
Roseland, New Jersey 07068  
(201) 994-1700  
(201) 994-1744 (FAX)

DATE: March 14 1996

OPERATOR: RJ

TIME COMPLETED: \_\_\_\_\_

EXT. NO.: 525

OUR FILE NO.: 325888-5

FAX NO.

201,309-8512

NAME

FIRM

Bol-Benson

HGS

FROM: C. Hansen

Total Pages Including Transmittal Sheet 7

COMMENTS: Bob - this is the notice for AIM-I (preliminary  
"Final Draft") - there are 1 or 2 questions for Steve Rubin (list, incl.  
re add'l figures available? see last 2 pages of transmission -  
can we have/transmit some for TEF S&E, i.e. today/or  
tomorrow?

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Ruben EXHIBIT #51

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CECCHI, STEWART & OLSTEIN  
6 Becker Farm Road  
Roseland, New Jersey 07068  
(201) 994-1700  
(201) 994-1744 (FAX)

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OUR FILE NO.: 325888-51

DATE: March 14 1996

NAME	FIRM	FAX NO.
<u>Bol-Benson</u>	<u>HGS</u>	<u>(201) 309-8512</u>

FROM: C. HARRIS

Total Pages Including Transmittal Sheet: 7

COMMENTS: Get this in the notes for AINI-I (or vice versa)  
"Fax license") - There are lot's of questions for Steve Rubin still incl.  
re all figures available? See last 2 pages of transmittal -  
can file 144 hours? same for TEF S.E. i.e. today or  
tomorrow.

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CJS

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Ruben v. Wiley et al.  
Interference No. 105,077  
RX 2051

## \*\*\* FAX TRANSMISSION REPORT \*\*\*

MAR-14-96 08:52 ID:2012941744

CARELLA BYRNE

## JOB NUMBER

193

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TELEPHONE NUMBER 525-3258000-549-13013098512

NAME (ID NUMBER) 3098504

START TIME MAR-14-96 08:32

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LAST SUCCESSFUL PAGE 066

CARELLA BYRNE, BAIN, CILFILIAN,  
 COCCIA, STEWART & OLSTEIN  
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 Roseland, New Jersey 07068  
 (201) 994-1700  
 (201) 994-1744 (FAX)

DATE: March 14 1996

NAME:

Bol-Benson

FORM

HGSOPERATOR: PIC

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EXT. NO.: 525OUR FILE NO.: 335800-549

FAX NO.

(301) 309-8512( )( )( )( )FROM: C HarmerTotal Pages Including Transmittal Sheet 71

COMMENTS: Bol, this is the copy for AIM-T (previously  
"Falloway") - there are lot's of questions for Steve Rubin still incl  
re add'l figures available? see last 2 pages transmission -  
can't find them in front of me. Some for TIF side, i.e. today/or  
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LAST SUCCESSFUL PAGE 007

CARELLA, BYRNE, BAIN, GILFILLAN,  
 CECCHI, STEWART & OLSTEIN  
 6 Becker Farm Road  
 Roseland, New Jersey 07068  
 (201) 994-1700  
 (201) 994-1744 (FAX)

DATE: March 14 1996

NAME:

Bob Benson

FROM:

HGS

OPERATOR: P

TIME COMPLETED:

EXT. NO.: 525

OUR FILE NO.: 325800-504

FAX NO.:

(301) 309-8572

FROM: S. Herren

Total Page Including Transmission Sheet 71

CONVENTS: Bob, this is the setup for ATM-I (privately  
 "Fiduciary") - There are lots of questions for Steve Rubin still incl.  
 re add'l figures available? See last 2 pages transmillein-  
 can file today/Hanover; same for TIF 5-8-96 is taken/or  
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*GH*

Figure 1

Nucleotide and Amino Acid Sequence of AIM-I

-51	GGCAGGAGGGCTGCCTGGCTGACTTACAGGAGTCAGACTTGACAGGTTCATGGTATG	8
-16	CCUTGCTGCCAACGGACCGACTGAATGTCTGCTGACTTGAGACTGTCAGTACCGATACT M A M	3
9	ATGGAGGTCCAGGGGGGACCCAGCTGGGACAGACCTGGCTGCTGATCTGATCTTCACA	68
4	TACCTCCAGGTCCCCCTGGTCTGGACCTGTCTGGACCCAGGACTAGCACTAGAAGTGT M E V Q G G P S L G Q T C V L I V I F T	23
69	GCTCTCTGCAAGTCTCTCTGCTGGCTGAACTTACGTGACTTTACCAACGAGCTGAAG	128
24	CAAGGAGGACGCAAGAGACACACCTGACATGCAATGGTCACTGAATGGTCTGGACTTC V L L Q S L C V A Y T Y Y T F T N E L K	43
129	CACATGCAGGACAAAGTACTCCAAAAGTGGCATTTGTTCTTAAAGAAAGATGACAGT	188
44	GCTACGGTCTGTTCATGAGGTTTACCGTAAAGAAAGAAATTCTCTACTGTCA Q H Q D K Y T S K S G I A C F L K E D O S	63
189	TATGGGACCCCAATGACGAAGAGACTATGAACAGCCCCCTGGCAAGTCAAGTGGCA	248
64	ATACCCCTGGGTTTACTGCCTCTCATACTTGTCGGGGACCCGTTAGTTACCGTT Y W D P N D E E S M H N S P C R Q V K R Q	83
249	CTCCGTCACTTCGGTAGAAAGATGATTTCGACAACTCTGAGGAAACCAATTCTACAGT	308
84	GAGGCACTGAGGAACTTCTACTAAACTCTGGAGACTCTTGTAAGATGTCAA L R Q L V R K H I L R T S E T I S T V	103
309	CAACAAAGCAACAAATATTCTCCCCTAGTGAGAGAAAGAGGTCTCAGAGAGTAGCA	368
184	GTCCTTCTGTTTATAAAGAGGGGATEACTCTCTCTCTCAGGAGCTCTCATGTT Q E K Q Q N I S P L V R E R G P Q R V A	123
369	GTCACATAACTGGGACCAAGAGGAAGCAACATTTGCTCTCTAAACTCCAAAGAT	428
124	CGACTGATTGACECTGGCTCTCTCTGTTGTTAACAGAGAGGTTGAGGTCTTA A H I T G T R G R S H T L S S P N S K N	143
429	GAAGGGCTGGGGCGCAAAATAACTCTGGGAATCATCAAGGAGTGGGCACTTCATT	488
144	CTTTCCGAGACCCGGGTTTATTTGAGGACCTTAGTAGTTCTCACCCGTAAGTAAG E K A L G R K I N S E S S R S G H S F	163
	CAGGAACCTGCACTGAGGAATGGTGAACCTGGTCACTGAAAGGGTTTACTAC	

**Figure 1 (con'd).**

489 GACTCGTGAACGTGAACTCTTACCACTTGACCACTAGGGTACT.....CCCAAATGATG  
 549 L S K L H L R N G E L V I H E K G F Y Y  
 583  
 549 ATCATTCCAAACATACTTTGATTTCAGGAGGAAATAAAGAAAACACAAGAACGAC  
 628  
 583 TAGATAAGGGTTGTATGAAAGCTAAAGTCTCTTAAATTTCTTTGTTCTGCTG  
 283  
 184 T Y S Q T Y F R F Q E E I K E N T K N D  
 283  
 629 AAACAAATGGTCCAAATATAATTACAAATACAAAGTTATCCGACCCATATTTGATG  
 668  
 669 TTGTTTACCGAGTTATATAATGTTATGTTGTCATAGGACTGGGATATAACAACTAC  
 723  
 284 K Q H V Q Y I Y K Y T S Y P O P I L L N  
 223  
 669 AAAAGTGTAGAAATAGTTGTTGTTAAAGATGCCAGAATATGGACTCTATTCATCTAT  
 723  
 223 TTTCAGGATCTTATCAACAAACCGAGTTCTACGTTTATACCTGAGATAAGGTGAGATA  
 243  
 224 K S A R N S C W S K D A E Y G L Y S I Y  
 243  
 729 CAAGGGGAAATTTGAGCTTAAGGAAATGACAGAA.....GTTCTGTAACAAATGAG  
 788  
 729 GTCCTCCCTTATAAACCTGAATTCTTTACTGCTTAAACACAGACATTGTTTACTC  
 253  
 244 Q G G I F E L K E N D R I F V S Y T N E  
 253  
 789 CACTGTATAGACATGACCATGAGCCAGT.....CGGGGC.....AGTTGCTAACTG  
 848  
 789 GTGAACTATCTGTACCTGGTACTTCGGTCAAAAAAGCCCCGAAAAATCAACCGATTGAC  
 295  
 254 H L I D N D H E A S F F G A F L V G  
 253  
 849 ACCTGAGAGAAGCAATAACCTGAGTGACTATTGATTTAGGATGATAACATA  
 908  
 849 TGACCTTTCTTTCTGTTATGGAGTTCACTGATAAGTCAGGATCTACTATGTGAT  
 908  
 909 TAAAGATGTCAGAAATCTGACCAAAACAAACAGAAAACAGAAAACAAAAAC  
 968  
 909 ACTCTACAAAGTTAGACTGGTTGGTTGTTGTTGTTGTTGTTGTTGTTGTTG  
 968  
 963 CTATGCAATCTGATAGGCTGACCAACACCAAAATCTACACACACACTGTTCTG  
 1028  
 963 GAGATGCTTAGACTCATCTGTCGCTGTTGGTT.....AGATGTTGTTGCTGAGAC  
 1028  
 1029 AAATGACTCACTATCCAAAGAAATGAAATGTTGAAAGATCTCAGGACTCTACCT  
 1088  
 1029 TCTACTGAGTGATAGGTTCTTACTTAAAGGACTTTCTAGAAGTCCTGAGATGGA  
 1088  
 1089 CTATGTTGCTAGGAGAAATCTAGAGACTGTCAGCTTCAGACATTATGCAATGG  
 1148  
 1089 GTATAGTCAGACGATGCTCTAGATCTCTGACAGTCGAGGTTGTAATTAGCTTAC

Figure 1 (con'd)

1249 TAAACATCTCTGCTTTATAATCTACTCTTGTAAAGACTGTAGAAGAAAGGGCAACAA  
AATTGTAGAAGACAGAAATATTAGATGAGGAACATTTCTGACATCTCTTCGGCTTTGTT 1288

1289 TCCATCTCTCAAGTAGTGTATCACAGTAGTACCCCTCAGGTTCCCTTAAGGGACAACATC  
AGTAGAGAGTTCATCACATAGTGTATCATCGGAGGTCCAAAGGAATTCCTGTTGAG 1288

1269 CTTAAGTCAAAAGAGAGAGAGGGACCACATAAAAGATCCAGGTTGCCGGGTGCAGTGCC  
GAATTCACTTTCTCTCTCTCGTGGTGTATTTCTAGCGTCAAACGGACCAACGTCAACCG 1328

1329 TCACACCTGTAATCCCACATTTGGGAACCCAAAGGTGGTAGATCAGGAGATCAAGAGA  
AGTGTGGACATTAGGTTGTAAACCCCTGGGTTCCACCCATCTAGTGTCTAGTTCT 1388

1389 TCAAGACCATAGTACCAACATAGTCAAACCCATCTCTACTGAAAGTGCAAAATTAGC  
AGTTCGGTATCACTGTTGTATCACTTTGGGTAGAGATCACTTCACGGTTTAATCG 1448

1449 TGGGTGTGGCACATGCTGTAGTCCCAGCTACTTGAGAGGTGAGGCGAGGAGAATCG  
ACCCACACACCCGTGTACGGACATCAGGUTGATGAACTCTCCACTCCGTCTCTTAGC 1508

1509 TTGAACCCGGGAGGCAGAGGTGCACTGTGGTAGATCATGCCACTACACTCCAGGCTG  
AAACTTGGGCCCTCGTCTCAACGTACACCACTCTAGTACGGTGTGAGGTGGAC 1568

1569 GCGACAGAGGGAGACTTGGTTTC  
CGCTGTCTCGCTCTGACCCAAAG 1591

Figure 2

Alignment of AIM-I to Human Fas Ligand  
(Similarity = 48.594 % Identity = 22.892 %)

4 MEVQGGPSLQRQTCYLIVFIVL.....LQSLCAVATYY 36  
:: :...:...:...:...|:...:...:...:...:...:...:...:  
15 vdssassspmappgtvlpctsvprpgqrppppppcicpppppppolp 64  
37 YFTINELKQHQDQYTSKSGEACFLKEGOSTYKCPNDEESWNSPCAQVKHQLRQ 86  
:: .:...:...:...:...:|:...:...:...:...:...:...:...:  
65 plp..lpplkkrgninstglcllv..ffavlvlgiglgmfql.fhlqk 109  
87 LVRKQHLRTSEETIISTVQEKKQHISPLVRLERGPQRVLAHETGTRGRSNTL 136  
:: .:...:...:...:...:|:...:...:...:...:...:...:...:  
110 elaelrestsamtasslekqighpspppekkelrkvahl...gksnsr 156  
137 SSPNSKNEKALGRKNSWESSRSGHFSLNLHLRNGELVCHEKGFYYEYS 186  
|| .:...:...:...:...:...:...:...:...:...:...:...:  
157 smptenedty.....givllsgvkykkggivinetglyfvys 193  
187 QTYFRFQEEIKENTNDKQHQYIYKTS.YPDPIILMKSARNSCNSKDA 235  
.|| .:...:...:...:...:...:...:...:...:...:...:  
154 kvyfr.....gaschniplshkvymrrskypqdfivamegiamysyzzq 237  
236 EYGLYSIYQQGEFELKENDREFVSVTNEHLCDHHEASFFGAFLY 280  
:: .:...:...:...:...:...:...:...:...:...:  
238 amar...ssylgavfnlsadhllynnvselslvneesatffglykl 281

Figure 1 (con'd)

1149 TAAACATCTCTGTTATAATCTACTCTTAAAGACTTGAGAAGAAAGGGCAACAG  
AATTGTAGAAGACAGAAATATTAGATGAGGAACATTCTGACATCTCTTCGCGTTGTT 1208

1209 TCCATCTCAAGTAGTGTATCACAGTAGTAGCTCCAGGTTCTTAAGGGACAAACATC  
AGTAGAGAGTTCATCACATAGTGTATCATCGGAGGTCCAAGGAATCCCTGTTGAG 1268

1269 CTTAAGTCAAAGAGAGAAGAGGCCACCAAAAGATGGCAGTTTGCCTGGTGCAGTGGC  
GAATTCACTGTTCTCTCTCTCTGGTGTATTTCTAGCGTCAAACGGACCACGTCAACCG 1328

1329 TCACACCTGTAATCCCACATTTGGGAACCCAAAGGTGGTAGATCACCGAGATCAAGAGA  
AGTGTGGACATTAGGTTGTAAACCCCTGGGTTCCACCCATCTAGTGTCTAGTTCTCT 1388

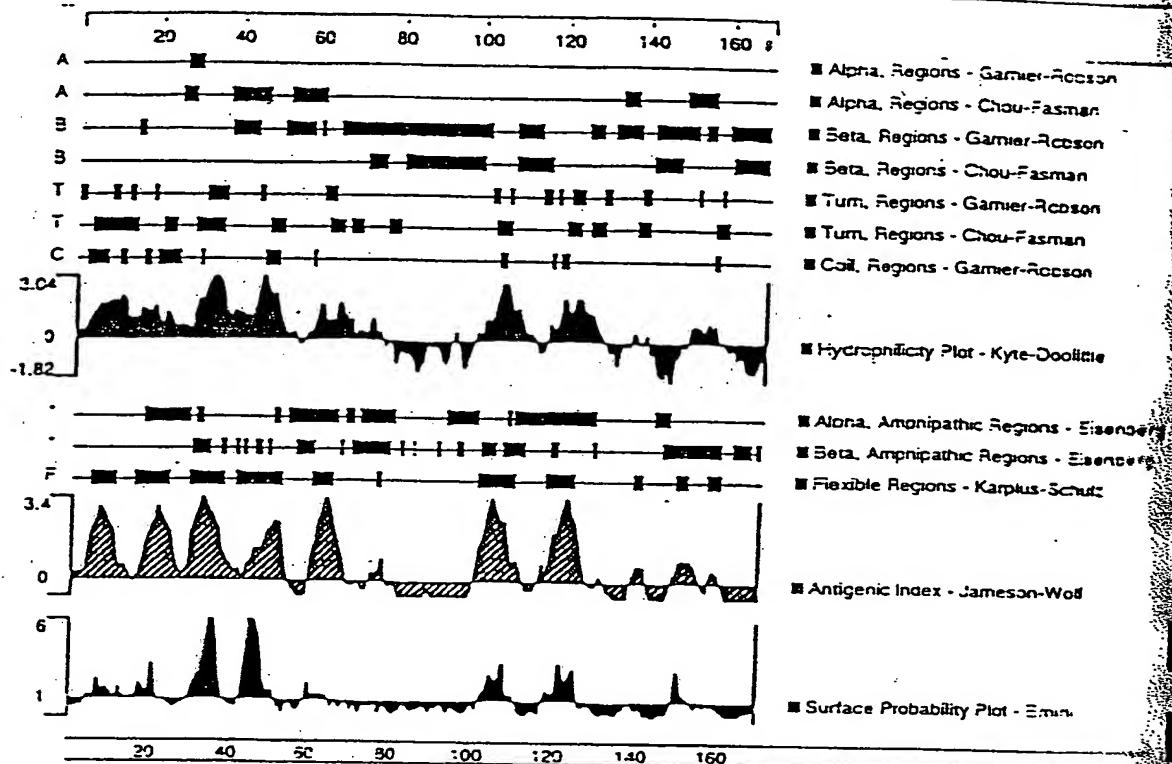
1389 TCAAGACCATAGTGACCAACATAGGAAACCCATCTCTACTGAAAGTGCAAAATTAGC  
AGTCTGGTATCACTGGTTGTATCACTTGGGTAGAGATGACTTTCACGTTTAATCG 1448

1449 TGGGTGTGGCACATGGCTGTAGCCAGCTACTTGAGAGGTGAGGCAGGAGAAATCG  
ACCCACACAAACCGTGTACGGACATCAGGGTGTGACTCTCCGACTCCGTCTCTTAGC 1508

1509 TTGAACCCGGAGGGAGGGTGGACTGTGGTAGAGATCATGCCACTACACTCCAGCTG  
AAACTTGGGCCCTCGCTCTCAACGTCAACACCACTCTAGTACGGTGTGAGGTGGAC 1568

1569 GCGACAGAGGGAGACTTGUTTC  
CGCTCTCGCTGTGACCCAG 1591

Residue	Sequence	Secondary Structure	Decorations
1	G		
2	S		
3	T		
4	Y		
5	F		
6	V		
7	I		
8	N		
9	P		
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31	T		
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37	H		
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43	R		
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309	H		
310	C		
311	W		
312	I		
313	N		
314	P		
315	R		
316	D		
317	S		
318	E		
319	T		
320	A		
321	M		
322	K		
323	Q		
324	L		
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328	I		
329	N		
330	P		
331	R		
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410	P		
411	R		
412	D		
413	S		
414	E		
415	T		
416	A		
417	M		
418	K		
419	Q		
420	L		
421	H		
422	C		
423	W		
424	I		
425	N		
426	P		
427	R		
428	D		
429	S		
430	E		
431	T		
432	A		
433	M		
434	K		
435	Q		
436	L		
437	H		
438	C		
439	W		
440	I		
441	N		
442	P		



Steve

do you have ~~data~~ a  
file (+ AIM-I (Fab ligand))?

If so please fax to me

Thank  
Charlie

Alignment Report of Unitized 1 Digital method with PAMCSO residue weight 30%

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	10	20	30	
1	H I A M E V Q G S I P S	G Q I C V I C V F T V L	A M X 1	
2	M O C P H N Y P C D I G	I F N V D S S A L S S W A D	F A S L I C A N D U 0 6 9 4 8 . p e p	
3	M	- - - - -	T R D R L E I	- - - - -
4	H	- - - - -	T R D R L E I	- - - - -
	40	50	60	
26	G Q S U C V A V T E V Y F T N E L K G M D K E Y S X S I G I A	A M X 1		
31	P C P S I C H P R G	- - - P C Q R R P P P P P P V I S I P L P	F A S L I C A N D U 0 6 9 4 8 . p e p	
2	- - - - -	- - - - - S T S S E I R D V E	- - - - -	
9	E P P R V I C G T	- - - - -	- - - - -	- - - - -
	70	80	90	
56	C F U K E D D S T W D I P N Z Z E E S M I N S S C W Q I V K W C I U R	A M X 1		
57	- - P I S Q P I L P I L P I L T P L X K E D H N T N I L W U D Z V V	F A S L I C A N D U 0 6 9 4 8 . p e p		
12	- - - - -	- - - - - S T S T G G P L O G S E R C I	- - - - -	
17	- - - - -	- - - - - - - - - - -	- - - - -	- - - - -
	100	110	120	
86	S I C V R K H	- - R T S E S C U S S - - V Q E K C I G N I S P I L V I	A M X 1	
85	- - - V I C V A V I V O S M I G I L G	- - V Q E K C I G N I S P I L V I	F A S L I C A N D U 0 6 9 4 8 . p e p	
32	- - - S I C I S F I I V A I G A L E	- - L S C I S F I I V A I G A L E	- - - - -	
1	L I C I S F I I V	- - - - -	- - - - -	- - - - -
	130	140	150	
116	E I S S P O R V U A A H	- - T I G I T A S R S N C L S I S P I N S K I N S	A M X 1	
114	- - E I F I Z - - H G I S Z X V I S I S E	- - Z Q I A N M S I T P S I E K I S E P I N I	F A S L I C A N D U 0 6 9 4 8 . p e p	
62	E I S S P O R V U A A H	- - Z Q I A N M S I T P S I E K I S E P I N I	- - - - -	
34	C L I A - - C V I G I I T P I S I A I D	- - T A B D S P I K M H L A H S T L I D	- - - - -	
	160	170	180	
146	A L I G R X T I N S	- - - - - W E S S B I S C H S F L I S Y	A M X 1	
143	S I V A H M T G N P H I S R S I P I	- - - - - W E S S B I S C H S F L I S Y	F A S L I C A N D U 0 6 9 4 8 . p e p	
88	P V A H I V V A N P I O N E G Q	- - - - - W E S S B I S C H S F L I S Y	- - - - -	
0	O	- - - - - W E S S B I S C H S F L I S Y	- - - - -	- - - - -
	190	200	210	
167	I L H I L A N G I R I V V	- - H E X G I F Y V I Y S Q I E Y F R G Q I E E	A M X 1	
172	V I K V I K G I C V V	- - G I F Y S V Y S K V Y F R G Q I E C N	F A S L I C A N D U 0 6 9 4 8 . p e p	
177	V I E I L D R D N G I C V V	- - G I F Y S V Y S K V Y F R G Q I E C N	- - - - -	
92	V I E I L D R D N G I C V V	- - G I F Y S V Y S K V Y F R G Q I E C N	- - - - -	
	220	230	240	
157	K E N T T K N O K G I M I V I Q I	- - Y K Y T S I - Y P I C P I C I - M I K S I	A M X 1	
202	N C P	- - - - - Y K Y T S I - Y P I C P I C I - M I K S I	F A S L I C A N D U 0 6 9 4 8 . p e p	
146	- - - S I T E V	- - - - - Y K Y T S I - Y P I C P I C I - M I K S I	- - - - -	
122	P X A L D S P I	- - - - - Y K Y T S I - Y P I C P I C I - M I K S I	- - - - -	



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9620 Medical Center Drive, #300  
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(301) 309-8504 (301) 340-7159 Fax

DATE:

3-14-96

TO:

Charles Herron

FAX #:

201-994-1744

FROM:

Steve Huben

COMMENTS:

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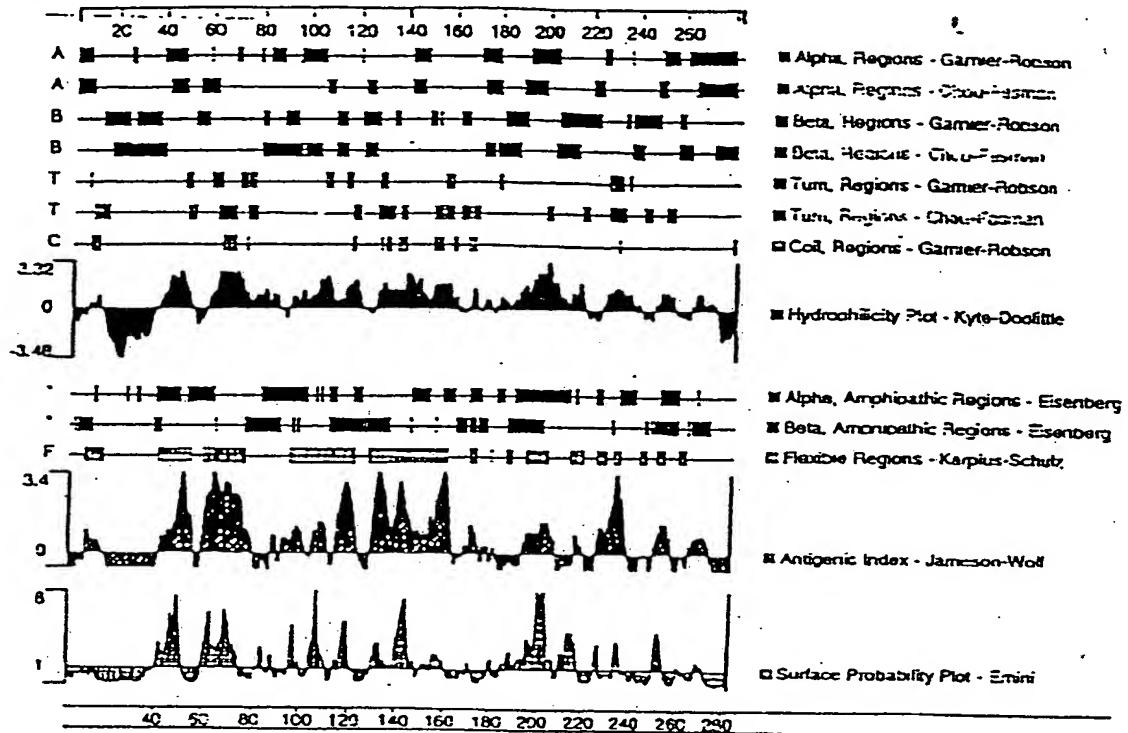
4

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